COMPUGRAPHIC 9600 LASER IMAGESETTER

THE POWER OF LASER TECHNOLOGY

Introducing the CG 9600—the new high-speed, state-of-the-art laser imagesetter from Compugraphic. Engineered for the highest quality output, the 9600 sets new standards for image quality, edge definition, and positioning accuracy—for both type and graphics.

Its ability to merge and manipulate high-quality type and graphics reduces the need for paste-up and camera work, boosting throughput and productivity and cutting production costs.

The CG 9600 laser imagesetter uses a superior new type imaging technology that features curvilinear data and 2400 dot-per-inch type resolution. Instead of creating characters from straight line segments, the 9600 uses arcs and curved lines for rounded parts of the character. This technique means crisper characters with truer curves, sharper corners and straighter horizontals and verticals than ever before. The result is high-quality CG LaserType™ with no vector lines or jagged stair-step edges—even in point sizes up to 999 points.

The 9600 can produce line art and halftones at resolutions of up to 1200 dots per inch, and it can slant characters left or right up to 31 degrees, do area reverse video, screens and tints, and wrong reading. It also allows you to output in "landscape" mode by rotating entire pages in 90-degree increments.

The CG 9600 stores up to 1,000 type styles on line and sets high-resolution type in the broadest range of sizes ever provided by Compugraphic: from 4 to 999 points in ½-point increments. And it can output at speeds of up to 10 inches per minute.

The 9600 is compatible with any of the thousands of MCS™ and Quadex™ systems installed worldwide. And with optional Interpress page-description language, it may also be driven by a host of other systems.

The Compugraphic 9600 laser imagesetter is capable of complex text and graphics composition suited to all graphic arts environments—whether commercial, inplant, or newspaper—from high-quality commercial typography to high-volume publishing.

For more about ways to add this new output capability to your production environment, call your local Compugraphic representative.

Ordinary imaging systems use vectored type designs that define curves as points connected by straight lines. As a result, edges of larger characters may show facets instead of a true curve.
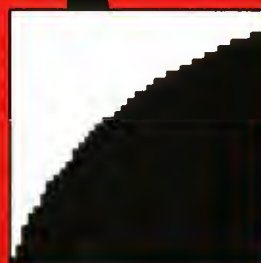
Characters created with digital bit-maps often show jagged, stair-step edges.

The curvilinear type designs used in the 9600 create type characters with smoother edges, sharper corners, and straighter lines than characters produced by any other imaging technology.

Curvilinear type imaging technology lets you output characters in sizes up to 999-point, with none of the distortion common to other type-imaging techniques. The use of arcs and curved lines to produce the rounded areas of characters produces the finest type images available.

Reversed

Reversed with tint

The optical system of the 9600 makes it one of the most precise output devices available. Text as well as graphics, including halftones and line art, can be output in position to produce complete pages. This text-and-graphics merging capability eliminates time-consuming manual procedures like camera work, paste-up, and stripping.

The versatile 9600 can generate type using a variety of special effects that would normally require costly and time-consuming camera work and stripping.

9600
Normal Set

9600
Extended

9600
Condensed

9600
Slanted

00ə6
Mirror image

ə600
Flipped image

9600
Reverse/positive combination

Special effects, such as shading, tints, patterns, reversed and mirrored images, can be generated directly from the 9600 and output in precise position. Tint percentages range from 5 to 95 percent in 5-percent increments, and cell shapes can be round, elliptical, or square.

Complex applications like forms can be produced without the manual steps involved in paste-up and camera work. The ruling, screen tints, and reversed type shown here can be generated by the 9600 and output with a high degree of positioning accuracy.

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Paper positive

A variety of graphic images, including continuous-tone photos, can be scanned by a front-end system, screened, and output by the versatile 9600. It will accommodate a wide range of half-tone screens from 85 to 141 lines in a variety of patterns such as square, elliptical, and line.

Film negative
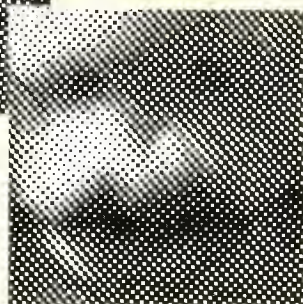
Film positive

With the 9600 you can output complete pages on a variety of media to satisfy any customer requirement.
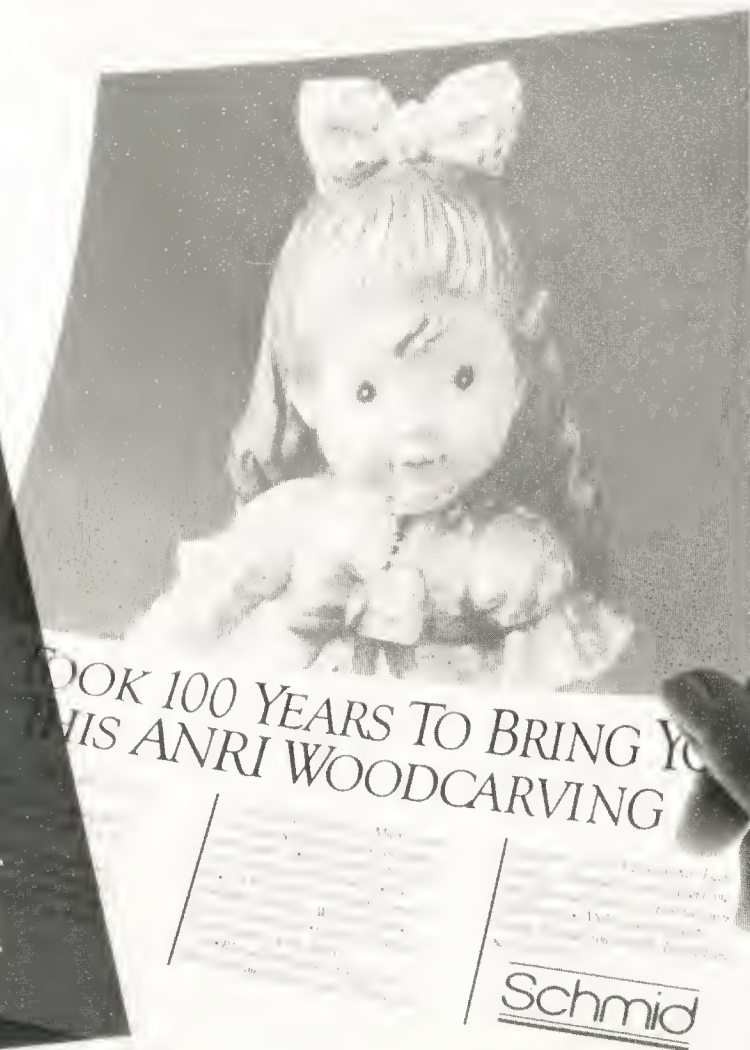
COMPUGRAPHIC 9600 LASER IMAGESETTER

COMPUGRAPHIC 9600 SPECIFICATIONS

Physical

	Length	Height	Depth	Weight
	38"	40"	28"	550 lbs

Electrical requirements: 115 V 8 A 50/60 Hz–230 V 4 A 50/60 Hz
Temperature: 65–85°F
Humidity: 35%–80% non-condensing recommended

Features

Page Size
- Maximum width of 78 picas
- Maximum depth of 135 picas

Type
- High quality type, curvilinear design technology
- Point Size: 4–999 in ½-point increments
- Expand/Condense: within point-size range of 4–999 point
- Pseudo Italic: 1–31° left or right
- Reverse Video: Individual character(s) or specified area(s)
- Page Rotation: 90° increments
- Intraline mixing of sizes and faces; base aligned
- Wrong Reading (Mirror Image)
- Leading: ¹/₁₆ point to 135 picas

Font Storage
- 118 characters per font; 54-unit em
- Standard fonts on line (user-defined):
- 75 (w/ 75 sq.-in. graphics area)
- 150 (w/ 50 sq.-in. graphics area)
- 225 (w/ 25 sq.-in. graphics area)
- 300 (w/ no graphics area)
- 6 supplemental swing fonts online standard

Ruling
- Horizontal length: ¹/₁₈ point to 78 picas
- Vertical depth: ¹/₁₆ point to 135 picas
- Rule weight: ¹/₁₆ point to 135 picas

Input
- Slave Mode; Justification controlled by input system
- Two devices on line

Output Media
- Red-sensitized paper and film

Output Speed/Resolution
- High Speed/Low Resolution: 10 inches per minute/1200 dots per inch
- Low Speed/High Resolution: 4.5 inches per minute/2400 dots per inch

Graphics
- Line art, halftones, logos, tints
- Resolution: 1200 dots per inch both vertically and horizontally
- Graphic Area: Standard 25 square inches at 141-line screen
  - Other standard graphic areas include:
  - 100 square inches at 600 dots per inch
  - 225 square inches at 400 dots per inch
  - A full page at 300 dots per inch

Options

Graphics Storage Option
- One 80 megabyte Hard Disk
- Graphic area increased up to 200 square inches at 1200 dots per inch
- Full page areas are available at 600, 400, 300 dots per inch

1000 Font Option
- One 80 megabyte Hard Disk
- Fonts on line (user-defined):
- 1000 (w/ 25 sq.-in. graphics area)
- 200 (w/ 175 sq.-in. graphics area)
- 120 (w/ 200 sq.-in. graphics area)